

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-9 (canceled)

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Claim 10 (new): A digital transmission method of an error correction coding,
comprising:

observing transmission conditions continuously to detect at least one dynamic
parameter of the current transmission conditions; and

selecting dynamically, as a function of the at least one dynamic parameter, a
distribution of elementary coding step redundancies from a plurality of distributions of
elementary coding step redundancies for which a global efficiency is equal to a
predetermined target efficiency, said predetermined target efficiency being determined by a
product of efficiencies of at least two elementary coding steps modified by corresponding
puncturing steps.

Claim 11 (new): The digital transmission method according to Claim 10, further
comprising:

performing a coding procedure including the at least two elementary coding steps
concatenated in series with the corresponding puncturing steps, and an interleaving step
between said at least two elementary coding steps, each of said at least two elementary
coding steps adding a redundancy by utilizing the selected distribution of elementary coding
step redundancies, to a useful information item to generate a coded information item with a
predetermined redundancy for a transmission of the coded information item over a channel;
and

performing an iterative decoding procedure including at least two elementary decoding steps, deinterleaving and depuncturing steps, and puncturing and interleaving steps corresponding to said at least two elementary decoding steps to obtain, from said coded information item, an estimation of said useful information item.

Claim 12 (new): The digital transmission method according to Claim 11, wherein said performing a coding procedure modifies said puncturing and interleaving steps, and said performing a decoding procedure modifies said deinterleaving and depuncturing, and said puncturing and interleaving steps corresponding to said at least two elementary decoding steps, as a function of said selected distribution of elementary coding step redundancies.

Claim 13 (new): The digital transmission method according to Claim 11, wherein said performing a coding procedure eliminates one or more said elementary coding steps and the corresponding puncturing and interleaving steps and said performing a decoding procedure eliminates one or more said elementary decoding steps, the deinterleaving and depuncturing steps, and the puncturing and interleaving steps corresponding to said at least two elementary decoding steps, as a function of said selected distribution of elementary coding step redundancies.

Claim 14 (new): The digital transmission method according to Claim 13, wherein said performing a coding procedure modifies remaining puncturing and interleaving steps and said performing a decoding procedure modifies remaining deinterleaving and depuncturing steps, and puncturing and interleaving steps corresponding to remaining elementary decoding steps, as a function of said selected distribution of elementary coding step redundancies.

Claim 15 (new): The digital transmission method according to Claim 11, wherein said elementary coding steps are performed using convolutional codes.

Claim 16 (new): The digital transmission method according to Claim 11, wherein said elementary coding steps are performed using block codes.

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Claim 17 (new): The digital transmission method according to Claim 10, wherein said at least one dynamic parameter is one of a bit error, a packet error rate, a signal/noise ratio, a signal to interference plus noise ratio, a number of active users of a telecommunication system, a quality of service required by a transmission system, and a speed of movement of a user of the transmission system.

Claim 18 (new): The digital transmission method according to Claim 10, wherein said observing transmission conditions and selecting a distribution of elementary coding step redundancies are executed at a transmitter, said selected distribution of elementary coding step redundancies being transmitted to a receiver.

Claim 19 (new): The digital transmission method according to Claim 10, wherein said observing transmission conditions and selecting a distribution of elementary coding step redundancies are executed at a transmitter and at a receiver.
